

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1320303

Luminaire Tested: LDSQA3D17R509840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R509840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

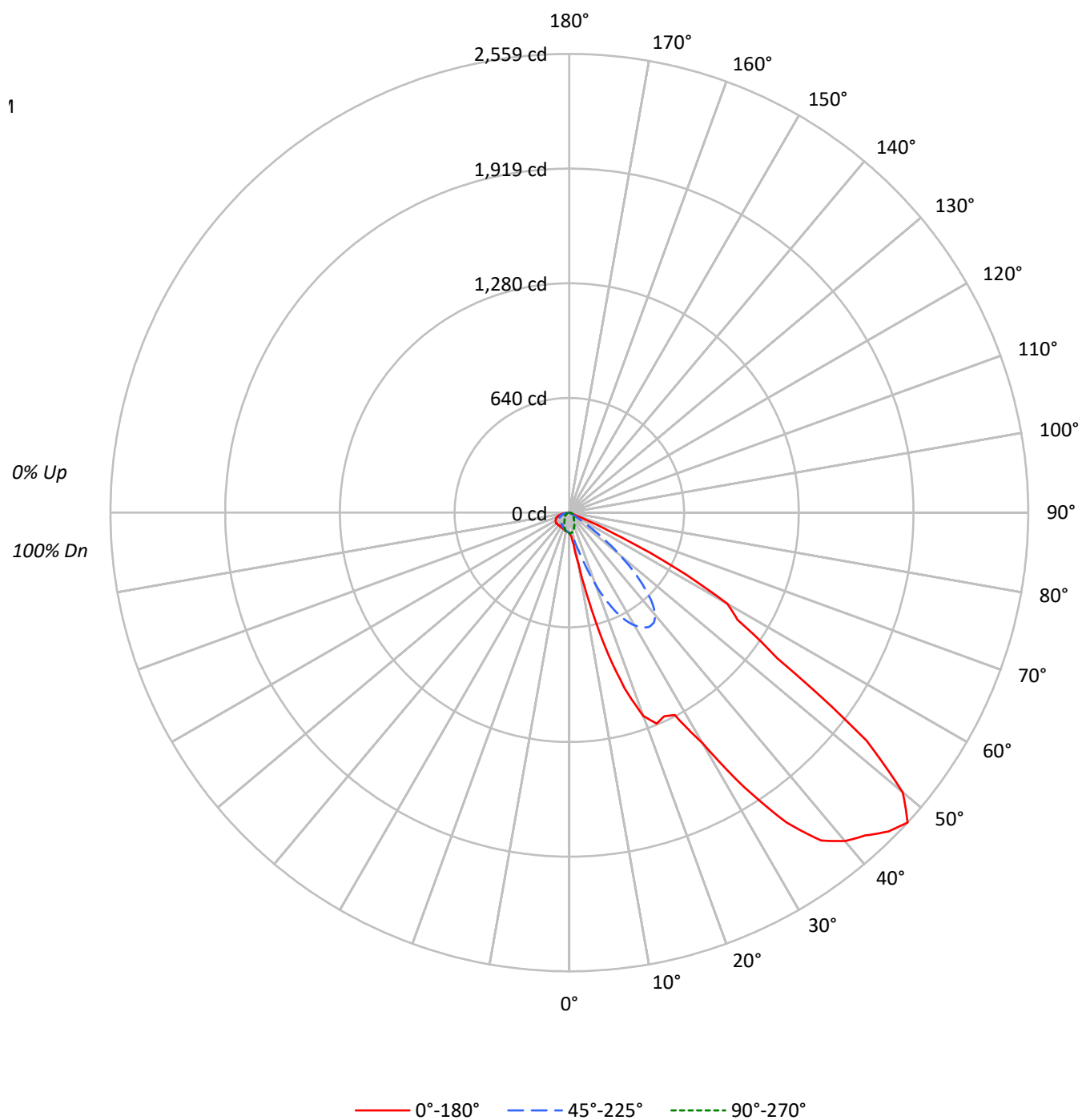
Lumens per Lamp: N/A
Luminaire Lumens: 1443.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19754	19754	19754	19754	19754
5°	23494	21973	19605	18740	18533
10°	50575	27246	18747	18083	18310
15°	140000	44664	16885	17331	18008
20°	221342	78350	14625	16678	17594
25°	238027	115099	12561	16114	17767
30°	295455	144496	10898	15869	18335
35°	443386	163508	9440	15979	19385
40°	537726	168121	8408	16524	20459
45°	612601	144187	8208	17609	22456
50°	650188	99510	8359	19023	25052
55°	424749	40055	8227	20598	27684
60°	350301	6854	8163	22320	30483
65°	105627	3545	7621	23880	33538
70°	4381	3777	7553	24472	36406
75°	4126	4126	7453	24887	39792
80°	3670	3670	7438	24696	40763
85°	2371	4940	9880	24700	39323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 652294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	0.8
10°-20°	68.3	4.7
20°-30°	175.7	12.2
30°-40°	315.5	21.9
40°-50°	421.4	29.2
50°-60°	321.0	22.2
60°-70°	97.4	6.8
70°-80°	23.3	1.6
80°-90°	8.4	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	255.9	17.7
0°-40°	571.4	39.6
0°-60°	1313.9	91.1
0°-90°	1443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	115	115	115	115	115	
5°	136	127	113	108	107	17
15°	785	250	95	97	101	231
25°	1253	606	66	85	94	598
35°	2109	778	45	76	92	1295
45°	2515	592	34	72	92	1923
55°	1415	133	27	69	92	1407
65°	259	9	19	59	82	359
75°	6	6	11	37	60	7
85°	1	2	5	12	20	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
2.5°	122.1	122.1	122.1	122.1	122.1	122.1	120.9	120.9	120.9	118.4	115.9
5°	135.9	137.1	135.9	135.9	133.4	133.4	130.9	130.9	127.1	119.7	113.4
7.5°	178.2	177.0	175.7	170.8	167.0	158.3	154.6	148.3	137.1	119.7	110.9
10°	289.2	281.7	276.7	265.5	241.8	226.8	206.9	187.0	155.8	119.7	107.2
12.5°	502.3	501.0	486.1	448.7	415.0	368.9	320.3	271.7	191.9	117.2	102.2
15°	785.2	774.0	752.8	709.2	649.4	577.1	489.8	403.8	250.5	113.4	94.7
17.5°	1027.0	1013.3	997.1	953.5	884.9	793.9	689.2	570.8	330.3	108.4	87.2
20°	1207.7	1199.0	1185.3	1150.4	1085.6	1003.3	886.2	742.8	427.5	102.2	79.8
22.5°	1273.8	1272.5	1275.0	1262.6	1230.2	1165.4	1053.2	903.6	523.5	94.7	72.3
25°	1252.6	1251.4	1267.6	1283.8	1291.2	1265.1	1179.1	1033.2	605.7	88.5	66.1
27.5°	1272.5	1268.8	1261.3	1263.8	1285.0	1300.0	1260.1	1133.0	676.8	79.8	59.8
30°	1485.7	1464.5	1430.8	1373.5	1331.1	1327.4	1309.9	1211.5	726.6	71.0	54.8
32.5°	1818.5	1792.3	1731.2	1625.3	1524.3	1447.0	1392.2	1277.5	761.5	62.3	48.6
35°	2108.9	2090.2	2019.1	1914.4	1769.9	1625.3	1525.6	1374.8	777.7	54.8	44.9
37.5°	2305.8	2298.3	2228.5	2116.3	1969.3	1798.5	1666.4	1474.5	774.0	46.1	41.1
40°	2391.8	2369.4	2310.8	2216.1	2067.7	1914.4	1774.8	1538.0	747.8	37.4	37.4
42.5°	2442.9	2418.0	2354.4	2264.7	2118.8	1955.6	1787.3	1510.6	685.5	29.9	36.1
45°	2515.2	2489.0	2405.5	2309.5	2162.5	1973.0	1738.7	1413.4	592.0	22.4	33.7
47.5°	2558.8	2541.4	2479.0	2383.1	2204.8	1948.1	1626.5	1322.4	488.6	17.4	32.4
50°	2426.7	2409.2	2363.1	2297.1	2177.4	1864.6	1528.1	1175.3	371.4	13.7	31.2
52.5°	2088.9	2103.9	2112.6	2131.3	2044.1	1677.6	1381.0	1058.2	250.5	11.2	28.7
55°	1414.6	1437.1	1462.0	1536.8	1639.0	1493.2	1226.4	914.8	133.4	11.2	27.4
57.5°	1111.8	1104.3	1096.8	1091.8	1171.6	1231.4	1078.1	731.6	57.3	11.2	24.9
60°	1017.0	994.6	979.7	983.4	1023.3	999.6	853.8	477.4	19.9	11.2	23.7
62.5°	666.8	684.3	717.9	775.2	747.8	641.9	496.1	189.4	10.0	11.2	21.2
65°	259.2	250.5	259.2	275.4	238.1	177.0	110.9	33.7	8.7	10.0	18.7
67.5°	34.9	31.2	23.7	15.0	13.7	12.5	10.0	8.7	8.7	10.0	17.4
70°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	7.5	7.5	8.7	15.0
72.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.7	12.5
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.5	11.2
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	8.7
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	7.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	5.0	6.2
85°	1.2	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5	3.7	5.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	114.7	114.7	114.7	114.7
2.5°	113.4	110.9	110.9	110.9
5°	110.9	108.4	108.4	107.2
7.5°	107.2	105.9	105.9	105.9
10°	104.7	103.4	104.7	104.7
12.5°	99.7	101.0	102.2	102.2
15°	94.7	97.2	99.7	101.0
17.5°	89.7	94.7	97.2	98.5
20°	84.8	91.0	94.7	96.0
22.5°	81.0	87.2	92.2	94.7
25°	76.0	84.8	91.0	93.5
27.5°	71.0	81.0	88.5	92.2
30°	67.3	79.8	88.5	92.2
32.5°	63.6	77.3	87.2	91.0
35°	61.1	76.0	87.2	92.2
37.5°	58.6	74.8	87.2	91.0
40°	57.3	73.5	87.2	91.0
42.5°	56.1	73.5	87.2	92.2
45°	53.6	72.3	87.2	92.2
47.5°	52.3	72.3	87.2	92.2
50°	51.1	71.0	87.2	93.5
52.5°	49.9	69.8	87.2	93.5
55°	47.4	68.6	86.0	92.2
57.5°	46.1	67.3	84.8	89.7
60°	43.6	64.8	82.3	88.5
62.5°	41.1	62.3	79.8	84.8
65°	37.4	58.6	76.0	82.3
67.5°	33.7	53.6	72.3	78.5
70°	29.9	48.6	67.3	72.3
72.5°	26.2	43.6	62.3	66.1
75°	22.4	37.4	54.8	59.8
77.5°	18.7	32.4	46.1	49.9
80°	13.7	24.9	37.4	41.1
82.5°	11.2	18.7	27.4	29.9
85°	7.5	12.5	17.4	19.9
87.5°	3.7	6.2	8.7	10.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)